

ABSTRACT OF THE DISCLOSURE

A micro-mobility network routing system and method implementing a protocol that extends the macro mobility support of Mobile IP to support micro mobility is disclosed which permits a more efficient and easily implemented Internet routing protocol for network devices to be affected. The macro mobility feature herein refers to the notion in which the mobile node gains access to the Internet, while retaining the same IP address. This concept is used only once when the mobile node enters the coverage area of a foreign domain (eventually its home domain). The concept of micro mobility within this context eases routing packets to the mobile node while its moves within the foreign network. The present invention implements these new features via the use of message compositions and protocol extensions that extend the prior art Mobile IP protocols.